

REPORT

— OF THE —

NEW YORK METEOROLOGICAL BUREAU,

FOR THE MONTH OF**NOVEMBER, 1891.**

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Central Office at Cornell University, Ithaca, New York.

METEOROLOGICAL SUMMARY FOR NOVEMBER, 1891.

The average Atmospheric Pressure (reduced to sea-level and 32 deg. Fah.) for the State of New York during November, was 30.11 inches. The highest barometer was 30.83 inches, at Central Park, New York City, on the 19th; and the lowest was 28.86 inches, at Buffalo, on the 23d. The mean pressures for the month show an unusually steep gradient from the maximum values at the eastern border of the State to the minima in the vicinity of Lake Erie. The mean pressure was above the normal at all stations; the average excess at six stations of the U. S. Service being about 0.05 inch. The maximum departure from the normal was 0.09 inch at New York City and Albany.

The mean Temperature for the State was 37.2 degrees; the highest general daily mean, 53.1 degrees, occurring on the 10th, and the lowest, 11.5 degrees, on the 29th. The highest local monthly mean was 44.6 degrees, at Central Park, New York City; and the lowest reported was 30.6 degrees, at Lowville, Lewis County. The maximum temperature recorded during the month was 75.0 degrees, at Eden Centre, Erie County, on the 9th; and the minimum was 9.0 degrees below zero at Number Four, Lewis County, on the 30th.—The mean monthly range of temperature for the State was 60.8 degrees; the greatest range, 75.0 degrees, occurring at Canton; and the least, 44.0 degrees, at Fort Columbus. The mean daily range for the State was 17.2 degrees; the maximum daily range being 46.0 degrees, at Eden Centre, on the 16th; and the minimum 1.0 degree, at Fort Columbus on the 1st, at Watkins on the 3d, and at Fort Hamilton on the 29th.—The mean temperatures for the various sections of the State were as follows: The Western Plateau, 36.5 deg.; the Eastern Plateau, 35.6 deg.; the Northern Plateau, 31.5 deg.; the Coast Region, 42.7 deg.; the Hudson Valley, 38.5 deg.; the Mohawk Valley, 37.1 deg.; the Champlain Valley, 35.6 deg.; the St. Lawrence Valley, 35.9 deg.; the Great Lake Region, 39.0 deg.; and the Central Lake Region, 39.4 deg.—The average of the mean temperatures at thirty-two stations possessing records for previous years, was 0.1 degree below the normal value. The temperatures were generally somewhat in excess of the normals in the northern and western parts of the State, while deficiencies commonly occurred in the eastern section and the Coast Region.

The mean Relative Humidity for the State was 76 per cent. The mean Dew Point was 30.7 degrees.

The average Precipitation for the State was 2.90 inches of rain or melted snow, which, as shown by the second chart of this report, was distributed over the State with unusual uniformity. The areas of maximum rainfall were located in the western portions of the northern and western highlands, where the precipitation exceeded four inches; while less than two inches fell over a considerable area west of the Central Lakes, and in limited portions of the Coast and Great Lake Regions, and the upper Champlain Valley. The greatest local monthly precipitation was 7.03 inches, at Turin, Lewis County; and the least was 1.20 inches, at Hammondsport, Steuben County. The maximum daily precipitation reported was 2.49 inches, at Minnewaska, on the 23d. Daily rates ranging from 1.50 to 2.00 inches were reported as follows: On the 11th, 1.50 inches, at Apalachin; on the 17th, 1.52 inches, at Number Four; on the 23d, 1.81 inches at Bedford, 1.75 inches at West Point, 1.63 inches at Boyd's Corners, and 1.50 inches at Peekskill. Daily amounts ranging from 1.00 inch to 1.50 inches were reported from twenty-five stations on the 11th, 17th, and 23d.—The average total Snow Fall over the State was (approximately) 3.9 inches. The greatest general snow fall occurred over the western highlands, between the Genesee River and Lake Erie, where the amounts ranged from twelve to fifteen inches; and over the western part of the Northern Plateau the amounts ranged from seven to fifteen inches. Elsewhere the snow fall was comparatively slight, and in the Coast Region none was reported during the month.—The average precipitation at thirty-one stations possessing records for previous years, was 0.35 inch below the normal value. The precipitation exceeded the normal amount at only eight stations, located in the three plateau regions, and the Champlain and Hudson Valleys. The greatest general deficiencies occurred in the eastern and south-eastern parts of the State.—The average number of days on which the precipitation amounted to 0.01 inch or more, was 9.0. The number of rainy days exceeded 20 in the vicinity of Lake Erie; while the minimum number, 6.1, occurred in the Coast Region.

For the State, the average number of clear days was 7.0; of partly cloudy days, 9.2; and of cloudy days, 13.8. The mean cloudiness for the State was 60 per cent. (overcast=100 per cent.) The minimum amount of cloud was 50 per cent. in the Hudson Valley and Coast Region; and the maximum amount was 82 per cent. in the vicinity of Lake Erie.

The prevailing Wind direction was from the south. The average wind travel for the month at six stations of the National Service and at Ithaca, was 8731 miles; the travel being in excess of the average value at all stations excepting Rochester. The maximum velocity reported was 66 miles per hour, at Buffalo, on the 24th.

Thunder Storms were reported as follows: On the 15th, at South Canisteo; on the 23d at four stations in the central and western parts of the State, and at Setauket, Long Island; on the 25th, at Brentwood, Long Island; and on the 26th, at South Canisteo.

Hail fell on the 12th and 13th, at South Canisteo; on the 15th, at Waverly and South Canisteo; on the 17th, at Setauket; and on the 23d, at Wedgewood and South Canisteo.

Solar Halos were observed on the 5th, 19th, 21st and 26th; and Lunar Halos on the 13th, 15th and 16th.

A brilliant meteor was observed at stations of Steuben County on the 28th.

The data for this summary have been obtained from the records of sixty-three Voluntary Observers, six stations of the National Service, twelve Military Posts, thirty-one Special Rainfall Observers, and fifty-four Display Stations, reporting this month to the Central Office of the Meteorological Bureau, at Ithaca, N. Y.

During November, the weather of New York was influenced by four anticyclones, and by eight areas of low pressure; a number somewhat deficient as compared with the average storm development for the month during previous years. One of these storms passed centrally across New York; one passed along its eastern border, and two along its western and north-western borders; one depression passed eastward south of the limits of the State, and two moved over the Canadian Provinces to the Atlantic Coast. In three cases the areas of maximum pressure of the anticyclones passed over some portion of New York; the centre of the fourth "high" passing to the coast south of this State. The general direction of movement of the anticyclones was south-eastward to the central Atlantic Coast, whence they again spread northward, thus prolonging their influence over the north-eastern States. From the first of the month until the 12th, the pressure over New York remained quite uniform, at a value somewhat above the normal; and this period was characterized by fair weather, a slight rainfall, and the highest temperatures of the month. From the 12th to the 30th, extreme and rapid fluctuations of temperature and pressure occurred, owing to the passage over or near the State of three intense "highs," and the same number of cyclonic storms; the latter being accompanied by the only heavy general rains of the month, while the steep barometric gradients gave high winds in all sections. The mean temperature for the month was very nearly normal; but the range was unusually large, exceeding that of any month since March, 1890; and the minimum temperature, attained on the 30th, was eleven degrees lower than the minima of November for the two preceding years. This cold wave brought the first important snowfall of the season, the month as a whole having been unusually "open," with a large percentage of fair days in the eastern section. The weather was thus very favorable for late plowing and other farm work; but the supply of ground-water, which was abnormally low at the beginning of the month, was further decreased by the deficient rainfall; so that an injurious drought prevailed over a large part of the State. The most serious effects were felt in the southern Hudson Valley and the Coast Region, giving rise to the "water famine" in New York City and vicinity.

At the opening of the month, the last storm mentioned in the report of October had passed eastward north of New York, and was followed by cold north-westerly winds and clearing weather, as an area of high pressure moved eastward from the Upper Lake Region along the Canadian border, spreading southward over New York and the Ohio Valley, on the 5th and 6th. A "low" area of small intensity, which passed to the Atlantic Coast south of the State on the 4th-5th, gave a slight rainfall only, in the western and southern sections; the weather remaining generally clear or fair until the 10th, under the influence of the preceding anticyclone, which continued over the central and northern Atlantic Coast during this time. The temperatures commenced to rise rapidly on the 7th, owing to the south-easterly winds flowing from the "high" on the coast toward a depression which moved eastward to the Great Lakes on the 8th, thence spreading southward toward the Gulf, while decreasing in intensity. The increase of temperature over New York was continued, owing to the southerly winds flowing up the Ohio Valley on the eastern side of the "trough" of low pressure; the maximum values for the month being attained on the 10th, when a storm which had formed in the central portion of the main depression, passed northward over the Great Lake Region, and there united with a second disturbance originating in Canada. The resulting storm passed eastward, north of New York, on the 11th and 12th, accompanied by general rains over the State, and cool westerly winds from a very extensive area of high pressure, which extended from Manitoba to the Central States. This area spread to the north-eastward on the three days following, giving cool and fair weather; but on the 15th, the formation of a trough of low pressure from the Great Lakes southward gave a great increase of temperature over New York, with general rains. On the 17th, the centre of the depression moved along the western border of the State and down the St. Lawrence Valley, causing high winds and a heavy precipitation over the portion of the State nearest the storm track. Clearing weather, with a cold wave, followed on the 17th-18th, when an intense anticyclone passed from the central Mississippi Valley to the Eastern States, where it remained until the 22nd, giving the maximum barometric pressures for the month over New York.

On the 21st two depressions, originating respectively over western Canada and New Mexico, united over the Upper Lakes; thence, as in two preceding cases, spreading southward as a trough, to the central Mississippi Valley, giving southerly winds and a very rapid rise of temperature over New York. The fifth storm of the month originated in this "trough" on the 22nd, and on the following day moved up the Ohio Valley, and thence northward along the western border of New York. This storm developed a central depression of 28.9 inches over Buffalo, and was accompanied by the maximum wind velocity of the month (sixty-six miles per hour) at that station. A secondary and more local storm developed within the main depression, apparently over southern New York or Pennsylvania; and from the reports received, its course is believed to have been from south-western Steuben County over the Central Lake Region; and thence, with diminishing intensity, toward the upper Mohawk Valley and the western Adirondacks. This secondary storm exhibited some of the characteristics of a tornado; high winds leveling trees, fences, and in a few cases, buildings, at points in its path. After the passage of the main depression to the northward, strong westerly winds brought a rapid fall of temperature, and flurries of snow occurred over the State. From this time until the 29th the weather remained unsettled, with pressures below the normal, owing to the passage of three storms near the State. The first of these passed over Canada and northern New York on the 26th and 27th, as a depression of moderate intensity; while on the same date, the second "low" moved northward along the Atlantic Coast and eastern New York, uniting with the preceding over Nova Scotia. The slight rainfall accompanying these storms was prolonged, on the 28th, by the last storm of the month, a broad area, which passed centrally over this State in a north-easterly direction. The cold outflow from an intense anticyclone which then covered the central United States, caused the precipitation of this storm to fall generally as snow; and as the anticyclone moved eastward, the temperatures continued to fall, reaching the minima for the month on the 29th. The weather cleared on the 30th, and grew warmer, as the pressure increased over the Central and Southern States.

METEOROLOGICAL DATA FOR NOVEMBER—1891

METEOROLOGICAL DATA FOR NOVEMBER—CONTINUED.

LOCATION OF STATIONS.		BAROMETER.				HUMIDITY.		TEMPERATURE—(In Degrees Fah.)												SKY.		PRECIPITATION—(Inches.)			WIND			
STATION.	COUNTY.	Mean	Highest	Date	Lowest	Date	Monthly Range	Mean	Dew Point, (degrees)	Mean	Highest	Date	Lowest	Date	Monthly Range	Mean	Greatest Daily Range	Date	Least Daily Range	Date	No. of Clear Days	No. of Partly Cloudy Days	No. of Cloudy Days	No. of Days on which 0.01 or more fell	Total for the Month	Average Daily	Total Snow Fall	Prevailing Direction.
<i>Coast Region cont'd</i>																												
Brentwood	Suffolk.	30.16	30.82	19	29.40	23	1.42	66.8	32.5	*43.0	73.0	11	15.0	30	58.0	16.4	27.0	17	6.0	29	14	5	11	4	2.00	0.70	.067	N. W.
Setauket	"																											
David's Island	Westchester																											
Fort Schuyler	"																											
White Plains	"																											
<i>Hudson Valley</i>																												
Albany	Albany	30.16	30.78	19	29.18	23	1.60	76.6	30.2	*38.5	70.0	1	4.0	29	57.6	18.8	41.5	8	5.0	ae	11.0	9.3	9.7	7.1	2.87	1.75	.95	0.5
Watervliet Arsenal	"																											
Honeymead Brook	Dutchess																											
Poughkeepsie	"																											
West Point	Orange																											
Boyd's Corners	Putnam																											
Carmel	Putnam																											
Marlborough	Ulster																											
Rondout	"																											
Peekskill	Westchester																											
<i>Mohawk Valley</i>																												
Rome	Oneida																											
Utica	"	30.14	30.76	19	29.18	23	1.58																					
<i>Champlain Valley</i>																												
Plattsburgh	Clinton																											
Plattsburgh Barracks	"																											
Saratoga	Saratoga																											
Glens Falls	Warren																											
<i>St. Lawrence Valley</i>																												
Malone	Franklin																											
Madison Barracks	Jefferson																											
Watertown	"																											
Canton	St. Lawrence																											
North Hammond	"																											
Ogdensburg	"																											
Potsdam	"																											
<i>Great Lakes</i>																												
Dunkirk	Chautauqua																											
Buffalo	Erie	30.06	30.59	19	28.86	23	1.73																					
Eden Centre	"																											
Fort Porter	"																											
Brockport	Monroe																											
Rochester	"	30.09	30.68	19	29.04	23	1.64	71.4	29.8	*39.8	72.0	9	11.0	29	61.0	13.6	30.0	8	4.0	24	5	9	16	17	2.46	0.68	.082	S. W.
Fort Niagara	Niagara																											
Hess Road Station	"	30.02	30.59	19	28.89	23	1.70	79.0	32.9	39.2	72.0	9	12.0	29	60.0	12.1	30.0	17	6.0	20	4	8	18	II	2.80	0.76	.093	6.4
Baldwinsville	Onondaga																											
Syracuse	"	30.08	30.67	19	29.12	23	1.55	72.8	33.2	39.4	66.0	9	16.0	29	50.0	12.6	30.0	17	4.0	29	5	9	16	II	2.53	0.60	.084	2.5
Albion	Orleans																											
Oswego	Oswego	30.09	30.66	19	29.06	23	1.60	71.6	29.0	*38.6	68.0	9	8.0	29	60.0	12.5	31.0	17	4.0	14	4	4	22	16	2.66	0.52	.089	S. S.
Palermo	"																											
Lyons	Wayne																											

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METEOROLOGICAL DATA FOR NOVEMBER—CONTINUED.

LOCATION OF STATIONS.		BAROMETER.				HUMIDITY.		TEMPERATURE—(In Degrees Fah.)												SKY.		PRECIPITATION—(Inches.)			WIND.			
STATION.	COUNTY.	Mean	Highest	Date	Lowest	Date	Monthly Range.	Mean Relative	Dew Point, (degrees)	Mean	Highest	Date	Lowest	Date	Monthly Range.	Mean Daily Range	Greatest Daily Range	Least Daily Range	Date	No. of Clear Days	No. of Partly Cloudy Days.	No. of Cloudy Days.	Total for the Month.	Average Daily	Total Snow Fall	Prevailing Direction.		
<i>Great Lakes cont'd.</i>																												
Erie, Pennsylvania	Erie	30.06	30.60	18	28.92	23	1.68	73.0	31.0	*40.0	73.0	9	18.0	19	55.0	12.5	24.0	23	4.0	14	2	No. of Clear Days						
<i>Central Lakes.</i>																												
Fleming	Cayuga									39.4	72.0	9	8.0	29	55.8	16.4	40.0	8	1.0	3	9.0	7.5	13.5	7.0	1.69	0.80	.056	0.9
Geneva	Ontario									37.8	67.0	9	10.0	j	57.0	16.2	33.0	17	5.0	3	cc			5	2.23	0.80	.074	2.0
Watkins	Schuyler									39.2	67.0	9	13.0	29	54.0	15.7	31.0	7	7.0			10	1.68	0.40	.056	1.0		
Romulus	Seneca									*41.5	72.0	9	14.0	30	58.0	17.2	40.0	8	1.0	3	6	11	5	1.55	0.50	.052	1.5	
Hammondsport	Steuben									*39.2	67.0	9	12.0	29	55.0	17.0	30.0	p	8.0	cd	13		1.25	0.42	.042	T.		
Ithaca	Tompkins	30.09	30.68	19	29.07	23	1.61	68.2	29.8	39.6	65.0	9	11.0	j	54.0	16.1	34.0	17	8.0	24	5	9	16	9	2.25	0.76	.075	I.0
Mean		30.11	30.83	19	28.86	23	1.59	76.0	30.7	37.2	75.0	9	-9.0	30	60.8	17.2	46.0	16	1.0	ce	7.0	9.2	13.8	9.0	2.94	2.49	.099	3.9

(a) 9, 10; (b) 12, 17; (c) 8, 9, 10; (d) 9, 23; (e) 8, 9; (f) 10, 23; (g) 11, 17; (h) 9, 10, 11; (j) 20, 30; (k) 18, 30; (m) 28, 29; (n) 7, 8; (p) 8, 17; (q) 7, 17; (r) 6, 7; (s) 19, 28; (t) 1, 12; (u) 22, 27; (v) 3, 24, 27; (w) 1, 14; (x) 12, 14; (y) 24, 27; (aa) 2, 12, 24; (ab) 22, 25; (ac) 1, 29; (ad) 11, 23; (ae) 26, 29; (bb) 1, 10; (bc) 10, 26; (bd) 14, 22; (be) 20, 22, 25; (cc) 12, 22; (cd) 27, 29; (ce) 1, 3, 29; (dd) 18, 27.

*The means are derived from the maximum and minimum temperatures. **Temperature record from Draper Thermograph. ***Reports received too late to be used in computing the means.

DAILY AND MONTHLY MEAN TEMPERATURES FOR NOVEMBER, 1891.

STATION.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mouth. Mean		
Western Plateau	36.9	33.0	31.8	33.6	34.4	34.8	39.9	48.9	54.8	55.7	48.0	40.3	38.1	32.5	35.5	47.8	32.5	21.8	28.2	38.2	45.2	52.1	45.4	32.8	28.8	32.1	35.2	19.9	11.2	20.1	36.5			
Alfred Centre	35.0	32.5	30.3	33.0	31.7	33.0	44.7	51.0	53.8	54.7	46.0	39.3	37.0	31.2	33.3	46.3	29.3	22.0	28.7	37.7	44.7	50.7	46.0	30.7	28.7	34.5	18.5	6.3	18.3	35.2				
Angelica	35.2	32.3	30.5	34.0	35.2	30.3	32.7	47.8	52.5	56.5	46.5	38.7	37.3	31.7	35.8	48.2	31.0	20.5	28.5	41.3	47.0	54.2	43.3	31.0	28.0	33.1	36.5	18.2	7.3	14.2	35.3			
Humphrey	36.5	36.0	33.2	35.0	32.8	39.0	40.0	52.8	54.0	55.8	47.3	36.5	32.0	35.3	48.2	26.3	19.5	29.2	39.5	44.8	51.0	41.0	28.5	26.5	32.0	35.3	21.8	13.0	19.0	35.9				
¶ Arkwright	37.6	32.6	35.0	37.2	35.5	35.6	43.7	54.8	58.4	56.6	47.0	39.8	36.1	31.5	47.9	32.9	22.3	26.3	37.5	46.0	49.6	47.0	31.8	27.2	32.8	31.3	23.1	16.0	21.9	37.0				
Sherman	35.5	33.5	34.2	35.4	32.2	35.5	43.0	52.5	55.9	55.9	46.2	35.6	36.0	31.0	37.2	48.5	23.1	20.1	27.0	37.5	45.0	51.8	41.8	28.8	27.2	33.2	34.5	18.9	15.4	18.5	35.7			
Elmira	38.8	35.5	34.8	34.2	36.8	36.5	38.2	45.8	52.5	57.8	51.2	44.5	42.2	38.0	51.0	36.0	24.8	32.2	42.0	48.0	55.8	48.2	38.8	34.8	36.2	43.8	23.2	13.8	22.0	39.2				
LeRoy	35.8	32.8	30.0	33.2	35.5	33.8	41.2	52.0	54.8	58.5	56.0	42.2	38.2	31.8	36.0	50.8	33.0	23.2	29.0	39.2	51.2	54.2	47.8	34.2	29.2	32.2	29.5	18.5	15.0	22.2	37.4			
*Mount Morris	40.5	40.0	33.8	35.8	43.0	43.0	40.5	37.5	57.5	56.0	49.5	44.0	41.5	33.0	45.2	36.5	25.0	27.0	30.5	46.0	54.0	53.0	38.5	32.0	37.0	36.0	..	23.0	39.9	..				
*Lockport	41.5	36.5	33.0	36.5	38.0	38.0	43.5	54.5	63.5	61.5	52.0	44.0	42.5	37.5	38.5	49.0	35.0	25.5	30.5	38.5	45.0	51.0	48.0	36.0	28.0	32.5	34.0	19.0	14.0	22.0	38.9			
*Victor	39.0	31.5	33.5	33.0	35.5	37.0	38.5	47.5	56.5	55.5	52.0	43.5	39.0	34.0	34.5	49.0	41.5	23.5	30.0	38.0	43.5	53.5	47.0	35.5	31.5	34.5	23.5	14.5	21.5	37.6				
Wedgewood	34.7	27.7	27.7	28.6	31.6	32.4	40.4	46.6	49.9	53.2	45.9	39.4	34.8	30.2	32.9	45.8	32.9	18.3	26.0	36.9	42.8	50.9	43.0	31.5	28.0	30.6	36.6	17.5	11.5	18.5	34.2			
Addison	40.0	33.0	33.8	34.8	34.5	34.5	36.0	45.8	51.5	56.0	46.0	42.0	40.2	37.0	49.5	38.5	24.0	31.2	41.5	45.0	55.0	45.2	35.0	32.5	33.2	40.0	23.5	14.5	22.2	37.8				
South Canisteo	35.8	32.0	31.2	31.2	32.2	29.8	37.5	46.0	57.5	52.2	45.8	39.8	40.8	32.2	34.5	47.2	32.0	21.5	27.5	42.0	44.2	52.0	42.8	32.0	28.2	31.8	37.0	19.2	10.0	19.2	35.3			
Arcade	33.0	31.1	30.3	34.0	32.2	31.9	39.8	49.1	53.3	56.0	44.2	37.3	35.5	28.6	34.4	47.1	27.0	19.1	25.9	36.7	44.6	50.6	41.8	28.4	25.1	31.0	33.2	15.9	8.6	18.0	34.1			
¶ Italy Hill	34.0	27.7	26.4	28.7	29.8	31.8	39.5	49.3	49.8	49.2	45.0	38.2	34.9	32.0	42.8	33.2	17.9	24.4	34.9	41.0	47.5	44.9	31.8	25.1	27.2	31.9	18.4	..	..	34.5		
Eastern Plateau	41.4	33.3	28.6	27.9	33.0	31.4	33.4	39.9	45.6	50.2	47.8	41.0	38.4	34.6	33.3	46.4	42.3	22.7	27.5	34.8	42.1	50.0	50.7	38.4	31.0	29.5	37.9	27.7	11.4	16.7	35.6			
Binghamton	40.8	32.0	31.2	30.0	32.8	34.0	32.5	41.5	50.5	53.0	48.0	40.0	39.8	34.8	35.5	40.8	39.0	23.0	29.5	38.5	45.2	54.0	47.8	36.5	32.2	32.0	43.8	23.5	14.2	18.2	36.8			
*Oxford	43.5	29.8	27.8	29.5	34.8	33.5	38.2	42.0	48.8	45.5	49.8	40.0	38.2	35.8	31.2	41.8	42.5	22.5	25.8	32.5	40.0	41.5	49.0	37.0	29.0	27.0	34.5	10.5	15.0	..	34.5			
*South Kortright	44.5	31.0	26.5	26.0	35.0	27.0	30.5	34.5	42.5	49.5	51.0	39.0	37.5	30.0	43.5	43.5	22.5	22.5	35.0	48.5	52.0	41.0	28.5	26.0	35.5	31.5	13.0	11.0	..	34.4				
Brookfield	36.5	31.5	27.5	28.2	33.5	28.0	28.7	42.5	48.5	52.0	43.5	37.5	39.8	32.0	34.2	52.0	41.8	20.2	27.0	36.0	44.7	51.7	55.0	35.0	27.7	28.5	37.2	21.7	5.5	19.2	..	34.9		
*Middletown	50.5	37.5	33.5	28.5	30.0	35.5	38.0	42.0	42.5	48.5	52.5	50.5	41.5	39.0	34.5	40.0	47.0	26.5	28.0	33.5	39.0	49.0	54.0	45.0	33.5	31.0	34.5	39.0	20.5	16.5	..	38.0		
*Port Jervis	47.5	37.5	33.0	27.0	34.0	34.0	35.5	39.0	39.5	49.0	51.5	45.5	40.0	35.5	33.5	46.5	46.5	27.0	25.5	33.0	39.0	51.5	55.0	44.0	37.5	29.0	39.0	41.0	21.0	17.5	..	37.8		
¶ Port Jervis	49.2	38.6	35.1	30.1	35.1	34.8	36.4	39.2	41.2	51.8	54.5	44.2	40.7	37.7	36.6	47.5	48.9	28.5	27.6	33.9	42.6	56.2	45.1	37.5	33.3	40.8	40.1	22.2	20.8	..	39.4			
Cooperstown	37.8	32.2	24.0	26.8	31.8	27.8	30.0	34.2	47.5	52.2	44.8	39.0	37.5	34.2	44.9	44.0	21.8	28.8	35.0	43.2	52.5	52.0	37.0	30.5	31.5	39.0	24.2	6.3	18.0	..	34.9			
New Lisbon	36.8	31.2	26.5	24.7	33.0	26.2	28.3	34.7	44.0	50.5	44.5	34.5	35.7	32.0	32.5	46.7	36.5	18.7	26.5	33.7	41.9	50.6	47.7	33.7	27.4	29.2	38.2	23.0	4.7	15.7	..	32.9		
*Quaker Street	44.0	31.0	27.0	25.0	30.0	29.5	32.0	38.5	41.0	46.5	48.0	41.0	39.0	36.0	30.5	44.0	47.0	27.0	26.0	31.0	37.5	47.5	52.5	43.0	31.5	27.0	34.0	3.5	12.5	..	34.4			
Perry City	37.2	33.2	29.0	32.2	35.6	28.7	33.7	46.0	51.8	54.8	46.0	41.5	37.2	30.5	34.5	48.7	38.7	22.0	28.2	37.5	45.8	52.5	47.0	36.2	29.5	31.9	39.7	21.0	13.1	19.5	..	36.1		
Waverly	38.2	37.5	32.0	31.3	37.1	40.0	34.2	40.0	47.0	55.0	46.0	41.6	38.0	35.4	37.2	51.0	41.9	27.5	38.3	38.5	45.0	54.9	48.2	36.0	33.0	31.0	43.0	24.0	15.8	21.0	..	37.8		
†Minnewaska	39.0	35.0	25.8	26.0	29.0	33.0	39.0	43.8	43.0	46.5	47.8	42.2	37.0	33.0	31.5	42.2	40.0	19.8	24.0	32.8	49.2	46.0	43.8	35.8	31.2	30.0	36.0	25.0	8.2	16.8	..	34.6		
*Minnewaska	41.1	31.4	27.4	25.1	29.0	30.5	37.7	42.9	42.5	43.6	48.0	37.5	30.3	30.8	41.0	41.5	19.6	23.5	31.1	38.7	46.5	35.5	29.4	28.8	34.5	33.8	..	..	35.5	..	..	
Northern Plateau	35.2	24.9	21.5	23.8	28.5	27.6	32.8	43.9	49.0	50.9	44.4	44.8	41.0	38.1	33.2	29.9	27.3	14.6	39.6	18.2	26.1	31.8	41.5	46.8	50.2	34.9	28.5	28.3	29.6	11.8	-1.2	13.7	..	31.5
¶ Lyon Mountain	33.2	24.5	24.0	26.0	31.3	30.4	37.4	46.7	..	55.7	49.1	41.0	34.7	28.8	27.2	44.7	42.6	16.8	27.1	35.3	46.6	48.2	35.4	28.8	30.6	30.0		
Constableville	34.5	24.8	20.0	24.5	27.0	27.8	32.0	41.0	47.2	51.5	42.0	36.5	33.5	28.8	28.2	46.8	34.5	17.2	22.2	31.2	39.2	45.5	48.2	32.8	28.2	29.5	29.0	9.0	-2.2	16.5	..	30.9		
Lowville	35.5	23.5	20.5	21.5	25.0	22.0	27.0	41.5	48.5	47.5	43.0	37.0	32.5	29.5	24.5	45.0	43.5	19.5	23.5	31.5	31.0	41.0	48.0	50.0	34.0	29.0	27.0	30.0	8.0	-4.5	15.0	..	30.6	
Number Four	30.5	24.0	19.0	22.7	28.0	32.0	46.0	51.5	53.0	42.5	37.2	32.0	30.0	45.8	35.5	16.0	35.5	33.0	41.7	48.5	50.0	32.0	26.2	29.8	27.8	10.2	-0.8	13.5	..	31.6				
*Turin	42.2	28.0	24.2	24.2	31.2	30.4	35.7	44.2	47.5	45.2																								

DAILY AND MONTHLY MEAN TEMPERATURES FOR NOVEMBER—CONTINUED.

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STATIONS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Month Mean
<i>Hudson Valley Cont'd.</i>																																
*Carmel	41.0	37.5	34.0	32.0	32.0	36.0	42.0	43.5	48.5	49.0	52.0	50.5	42.0	39.5	37.5	45.5	50.5	22.5	26.5	33.5	38.5	51.5	44.5	36.0	33.5	42.0	41.5	23.0	13.0	. . . . .	39.0	
Rondout	48.2	38.1	32.8	28.8	33.0	36.3	36.1	36.6	41.3	48.3	52.3	43.1	38.6	36.3	35.2	43.6	47.9	28.2	28.1	34.6	41.3	49.0	51.9	43.5	35.8	31.9	38.9	36.5	16.1	15.3	. . . . .	37.6
Peckskill	47.0	35.5	30.5	28.0	34.0	35.5	39.0	40.0	44.0	48.5	55.0	41.2	38.0	34.0	40.2	57.0	34.0	27.2	32.5	30.5	33.5	49.0	52.0	39.0	33.0	35.5	36.5	44.0	34.0	19.5	. . . . .	38.3
<i>Mohawk Valley</i>	37.8	32.0	28.2	30.2	33.8	34.2	40.2	45.0	49.8	50.0	47.8	39.2	40.8	41.0	37.2	44.2	44.2	29.5	28.0	37.2	44.8	51.5	51.8	49.2	32.0	31.5	34.0	22.5	8.5	16.8	. . . . .	37.1
*Rome	35.0	29.0	25.5	32.5	33.0	33.5	45.0	46.0	50.0	52.0	46.0	37.5	40.0	43.0	41.0	44.0	41.0	32.5	27.5	40.0	48.0	54.5	50.0	55.0	30.0	33.5	32.0	15.0	9.0	21.5	. . . . .	37.4
*Utica	40.5	35.0	31.0	28.0	34.5	35.0	35.5	44.0	49.5	48.0	49.5	41.0	41.5	39.0	33.5	44.5	47.5	26.5	28.5	34.5	41.5	48.5	53.5	43.5	34.0	29.5	36.0	30.0	8.0	12.0	. . . . .	36.8
<i>Champlain Valley</i>	41.0	34.1	31.0	25.8	29.6	30.2	32.8	38.6	45.9	52.0	53.2	45.3	43.4	31.6	28.8	50.2	42.6	25.2	31.8	37.2	46.2	50.3	49.6	42.4	33.0	35.1	34.8	21.0	6.0	13.4	. . . . .	35.6
Plattsburgh	37.0	31.7	29.0	26.6	32.8	30.4	34.6	37.8	48.8	52.4	51.0	43.1	39.8	33.8	29.2	51.5	44.6	22.8	30.2	36.4	45.0	50.1	53.7	42.8	36.1	34.2	31.6	16.0	4.5	18.2	. . . . .	34.8
*Plattsburgh Barracks	45.0	36.5	33.0	25.0	26.5	30.0	31.0	39.5	43.0	51.5	55.5	47.5	47.0	29.5	28.5	49.0	40.5	27.5	33.5	37.5	47.5	50.5	45.5	42.0	30.0	36.0	38.0	26.0	7.5	8.5	. . . . .	36.4
<i>St. Lawrence Valley</i>	37.5	29.6	26.9	26.3	30.8	29.7	34.8	45.1	55.4	57.0	49.3	44.8	49.1	33.7	30.3	48.2	42.7	22.0	30.4	36.9	48.4	50.7	55.8	39.7	31.2	32.8	31.6	15.7	1.7	18.5	. . . . .	35.9
Malone	33.8	26.5	25.0	24.8	29.2	29.8	33.8	42.8	53.2	56.5	46.8	42.0	35.8	29.5	26.5	48.2	40.2	13.2	29.0	35.5	48.5	51.0	55.8	36.0	30.0	31.8	27.8	8.2	-3.2	15.5	. . . . .	33.4
*Madison Barracks	46.0	34.0	33.0	26.5	36.5	30.5	34.0	49.5	58.5	57.5	54.5	45.5	39.0	39.5	32.5	43.5	47.0	32.5	32.0	37.5	41.0	44.0	57.0	44.5	37.5	34.5	39.5	28.5	8.0	16.0	. . . . .	38.6
Canton	35.5	27.5	24.2	25.0	27.0	27.5	34.8	41.8	55.0	59.2	46.5	43.8	38.0	30.5	30.0	48.5	37.5	22.0	31.8	38.8	50.2	54.2	55.2	38.2	29.5	34.0	31.0	11.9	0.0	20.8	. . . . .	35.0
North Hammond	38.5	32.5	28.5	29.5	32.0	33.2	37.2	49.5	56.8	54.0	52.0	51.5	45.5	33.0	32.5	50.5	49.5	20.5	29.5	36.5	54.0	51.2	56.8	42.5	29.2	32.5	29.8	20.5	3.5	20.8	. . . . .	37.8
Potsdam	33.8	27.5	24.0	25.8	29.2	27.5	34.0	41.8	53.5	58.0	46.8	41.2	37.0	36.0	29.8	50.2	39.2	22.0	29.8	36.5	48.5	53.2	54.2	37.2	30.0	31.0	29.8	9.5	0.0	19.5	. . . . .	34.6
<i>Great Lakes</i>	41.5	36.4	33.1	35.7	38.3	36.9	41.8	53.5	59.8	58.5	47.4	45.1	41.0	36.3	38.6	47.9	35.7	24.7	30.3	38.6	46.8	52.4	48.5	36.9	31.7	34.1	34.0	22.9	16.3	21.6	. . . . .	39.0
*Buffalo	41.0	37.0	34.0	36.0	40.0	41.0	44.0	55.0	62.0	61.0	49.0	43.0	41.0	34.0	38.0	50.0	34.0	26.0	32.0	40.0	47.0	54.0	49.0	36.0	30.0	34.0	31.0	20.0	15.0	24.0	. . . . .	39.4
*Eden Centre	47.0	38.5	34.5	36.5	35.0	39.5	40.5	55.5	63.5	61.0	53.0	50.0	41.0	41.0	43.5	43.5	35.0	22.0	26.5	37.0	44.5	46.0	40.0	36.0	31.5	39.0	32.5	23.0	15.0	9.5	. . . . .	38.4
*Fort Porter	40.5	37.0	33.0	38.0	41.0	39.5	46.5	57.5	60.5	58.0	57.5	57.5	38.5	33.5	39.5	44.5	25.5	15.0	26.5	29.0	40.5	49.0	32.0	32.0	17.0	15.5	17.5	. . . . .	37.2			
*Rochester	40.0	35.0	34.0	34.0	38.0	39.0	43.0	53.0	61.0	58.0	53.0	44.0	41.0	36.0	36.0	48.0	38.0	26.0	31.0	42.0	49.0	54.0	55.0	38.0	32.0	36.0	34.0	24.0	14.0	23.0	. . . . .	39.8
*Fort Niagara	50.0	39.5	39.0	41.0	38.5	44.0	54.0	62.5	56.0	47.0	41.5	38.0	38.5	50.0	37.5	28.5	33.5	41.5	47.0	53.5	52.0	38.5	33.5	34.5	36.0	31.0	19.5	24.0	. . . . .	41.8		
††Hess Road Station	38.5	38.0	31.5	36.5	37.7	34.5	44.5	54.5	60.7	61.5	51.0	43.0	39.0	34.5	36.5	52.0	32.5	23.0	34.5	40.0	53.0	55.2	47.7	35.7	29.7	36.0	31.2	20.2	18.2	23.7	. . . . .	39.2
† Hess Road Station	39.0	36.0	31.0	37.8	36.3	41.5	51.8	59.5	49.0	42.3	38.4	34.5	35.7	50.5	36.4	24.8	31.6	39.0	48.7	53.8	50.5	36.7	30.5	32.8	31.1	21.8	16.6	21.7	. . . . .	38.9		
Baldwinsville	40.0	35.0	32.8	33.5	38.0	34.2	35.5	48.5	54.8	56.5	51.5	44.0	41.8	36.5	40.2	48.8	40.5	25.8	28.5	40.5	49.5	52.8	49.5	38.5	34.0	38.0	35.5	24.0	15.0	20.2	. . . . .	38.9
Syracuse	41.2	35.2	31.9	34.4	39.9	34.2	38.4	51.2	57.3	57.0	50.3	45.3	43.7	37.8	40.7	..	40.4	27.1	30.8	42.5	49.2	56.6	53.4	40.3	33.6	36.8	35.9	22.5	11.4	23.6	. . . . .	39.4
Albion	37.0	33.2	28.5	35.0	37.6	35.5	45.5	57.5	60.5	57.0	49.8	41.8	40.0	38.2	34.5	47.9	30.0	24.1	33.0	43.5	50.8	53.8	44.0	37.8	26.2	31.2	26.5	30.8	28.5	. . . . .	38.8	
*Oswego	42.0	36.0	30.0	33.0	36.0	37.0	39.0	50.0	56.0	54.0	48.0	44.0	42.0	36.0	37.0	48.0	46.0	27.0	30.0	36.0	46.0	52.0	55.0	38.0	35.0	34.0	34.0	22.0	12.0	21.0	. . . . .	38.6
Palermo	38.8	34.5	28.5	32.8	36.5	30.0	34.2	48.8	54.8	55.2	50.2	41.8	42.0	35.2	37.8	52.5	37.0	24.0	29.8	36.5	38.5	48.5	51.2	37.5	31.5	30.8	33.8	18.2	7.5	20.8	. . . . .	36.5
|| Lyons	39.0	36.5	32.7	35.5	37.7	34.0	39.7	50.7	54.2	57.2	49.7	44.0	40.7	35.5	39.2	51.3	38.1	25.7	32.7	40.7	49.7	54.2	54.5	38.0	33.1	36.5	36.9	22.7	17.2	24.6	. . . . .	39.4
*Erie, Pennsylvania	42.0	38.0	39.0	40.0	39.0	40.0	47.0	56.0	64.0	60.0	50.0	40.0	40.0	35.0	41.0	50.0	32.0	28.0	35.0	46.0	54.0	50.0	32.0	32.0	36.0	36.0	22.0	23.0	. . . . .	40.0		
<i>Central Lakes</i>	43.5	35.0	32.6	35.4	36.1	36.2	39.5	50.3	55.2	54.7	51.6	45.0	39.7	36.2	39.7	48.0	37.3	26.5	34.2	41.5	49.7	54.0	48.7	39.1	36.1	34.7	39.0	23.8	15.4	23.2	. . . . .	39.4
Fleming	39.5	33.5	28.0	35.0	36.0	35.0	41.0	52.0	54.5	55.0	49.5	42.0	40.0	32.5	37.0	51.0	32.0	24.0	31.0	38.5	47.0	54.0	50.0	38.0	31.0	34.5	38.0	20.0	12.0	22.5	. . . . .	37.8
Geneva	40.8	34.5	33.0	36.2	37.8	33.2	37.8	52.2	56.0	55.2	50.5	44.8	41.2	33.5	39.8	51.8	37.5	24.2	34.0	41.8	50.0	54.8	50.5	38.2	32.5	36.2	35.8	22.2	16.2	23.8	. . . . .	39.2
Watkins	54.5	38.0	37.5	37.0	34.0	42.8	41.5	50.0	58.0	54.2	52.0	45.5	39.5	38.5	37.0	49.5	48.5	26.0	32.0	41.5	51.5	57.0	..	50.0	34.0	41.0	29.5	18.5	23.0	. . . . .	41.5	
*Romulus	45.5	36.8	33.5	36.0	37.0	37.0	39.0	48.0	55.0	51.5	53.5	47.0	39.5	38.0	36.5	48.0	43.0	26.0	31.0	37.5	45.5	54.0	52.5									

DAILY AND MONTHLY PRECIPITATION FOR NOVEMBER, 1891—(INCHES.)

DAILY AND MONTHLY PRECIPITATION FOR NOVEMBER—CONTINUED.

DAILY AND MONTHLY PRECIPITATION FOR NOVEMBER—CONTINUED.

STATIONS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total					
Great Lakes . . . . .	.05	T.	.00	.00	T.	.00	.00	T.	.01	.09	.28	.18	.09	.04	.01	.09	.48	.09	T.	T.	.11	.18	.39	.27	.02	.02	.18	.19	.04	.01	.85					
Dunkirk . . . . .	.01	.	.	.	.	.	.	.	.	.	.20	.27	.41	.	.19	.40	.06	.	.	.	.07	.30	.48	.	.	.38	.18	.10	.	.04		
Buffalo . . . . .	.20	.	.	.	.	.	.	.	.	.	.10	.30	.25	.32	.15	.05	.10	.16	.66	T.	T.	.	.06	.40	.43	.32	.14	.32	.25	.01	T.	.13
Eden Centre . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.67	.27	.22	.87	.20	.23	.30	.30	.10	.	.08	
Fort Porter . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	.	*	.	.	.	.	.	*	.	.90	.	.	.	.	.	.	.	.	.	.50
Adams Centre . . . . .	.	.	.	.	.	.	.	.	.	.	.	.96	.09	.03	.	.	.	.07	.93	.	.	.	.	.	.50	.17	.63	.	.	.	.78	
Chittenango . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Brockport . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Rochester02	.010134	.03	.01	T.	T.	.02	.16	.0501	.19	.15	.54	.01	.	.12	.68	.11	T.	.46				
Fort Niagara . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.75
Hess Road Station	T.	.	.	.	.	.	.	.	.	.	T.	.	.	.46	.	.	.	.	.	.	.32	.18	T.	.	.	.	*	.	.	.	.	.75
Baldwinsville . . . . .	.07	.	.	.	.	.	.	.	.	.	T.	.	.	.18	.	.05	.21	.76	T.	.	.	.23	.12	.55	.	.03	T.	.42	.20	.	.80	
Syracuse . . . . .	.08	.	.	.	.	.	.	.	.	.	T.	.	.	.53	.04	.29	.02	.	.	.	.44	.	.	.03	T.	.08	.70	.	.22	.08	.	.50
Albion . . . . .	.	.	.	.	.	.	.	.	.	.	T.	.	.	*	.	.35	T.	.27	.	.	*	.60	.	.	.	.	.	.	.	.	.	.74
Lyndonville . . . . .	.16	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.57	
Demster . . . . .	.20	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.22	
Oswego	T.	T.	.	.	.07	.52	.07	.0201	.36	.0911	.26	.51	.32	T.	T.	.07	.17	.02	.04	.66
Palermo	T.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.88
Sand Bank . . . . .	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lyons30	T.	T.	.	.	.01	.	.06	.25	.50	.27	T.	.	.	.11	.32	T.	.	.	.24	.30	T.	.	.20	.07	T.	.	.99		
Erie, Pennsylvania01	T.	T.99				
Central Lakes	T.	.00	.00	.00	T.	.00	.00	0.00	.00	.57	.20	.02	T.	T.	.03	.24	.02	0.00	.02	T.	.01	.42	.01	.00	T.	.02	.12	T.	.00	.	.69						
Fleming . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.23
Geneva	T.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.68
Watkins . . . . .	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.55
Romulus	T.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.25
Hammondsport . . . . .	.	.	.	.	.	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.20
Ithaca . . . . .	.01	.	.	.	.	T.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.25
Average	0.04	T.	.00	.00	T.	.00	.00	T.	T.	.02	.58	.16	.04	.01	T.	.06	.55	.05	T.	T.	.02	.12	.55	.24	.04	.05	.11	.14	.01	T.	.	.90					

* Amount included in next measurement. +Not used in computing the averages. T Record for the month incomplete. ||Reports too late to be used in computing the averages.

TEMPERATURE AND RAIN FALL STATISTICS—NOVEMBER.

TEMPERATURE—(DEGREES FAH.)												RAIN FALL—(INCHES.)																					
STATION.	COUNTY.	Normal for the Month of November.			Length of Record—Years.			Mean for November, 1891.			Extremes of Monthly Mean Temperature for November.			STATION.	COUNTY.	Average for the Month of November.			Length of Record, Years.			Record Begins . . .			Record Ends . . .			Total for November, 1891.			Extremes of Monthly Precipitation for November.		
		Record Begins . . .	Record Ends . . .	Year	Highest . . .	Lowest . . .	Year	Record Begins . . .	Record Ends . . .	Year	Greatest . . .	Least . . .	Year			Record Begins . . .	Record Ends . . .	Year	Amount . . .	Year	Amount . . .	Year	Amount . . .	Year									
Western Plateau		36.8	8	1854	1891	36.8	0.0	38.1	1889	30.6	1871			Western Plateau		2.71	5	1871	1891	2.58	-0.13												
*Angelica	Allegany	35.0	8	1854	1891	35.3	+0.3	39.8	1889	30.2	1886	Angelica		2.55	5	1871	1891	2.33	-0.22	4.27	1889	1.64	1871										
Humphrey	Cattaraugus	36.3	9	1883	1891	35.9	-0.4	39.8	1889	30.2	1886	Humphrey		3.69	9	1883	1891	4.09	+0.40	6.23	1886	2.29	1887										
*Elmira	Chemung	39.0	13	1852	1891	39.2	+0.2				1887	Elmira		1.89	15	1852	1891	1.31	-0.58														
Eastern Plateau		35.0				36.4	+0.2				1887	Eastern Plateau		2.60				2.86	+0.26														
Pompey	Onondaga	32.7	21	1826	1858						1873	Port Jervis		3.08	38	1854	1891	3.15	+0.07	5.38	1858	1.45	1876										
Cooperstown	Otsego	34.9	38	1854	1891	34.9	0.0	38.5	'76-'77	26.8	1873	Orange		2.30	7	1880	1891	3.37	+1.07	3.39	1884	1.12	1883										
Waverly	Tioga	37.4	9	1882	1891	37.8	+0.4	40.0	1883	35.0	1882	Waverly		2.42	9	1882	1891	2.07	-0.35	5.90	1889	0.91	1883										
Northern Plateau		33.0				30.6	-3.7				1887	Northern Plateau		2.87				5.23	+2.10														
Keene Valley	Essex	31.7	6	1879	1890						1887	Keene Valley		2.61	6	1879	1890																
Lowville	Lewis	34.3	25	1827	1891	30.6	-3.7				1887	Lowville		3.13	23	1827	1891	5.23	+2.10														
Coast Region		43.6				42.8	-0.8				1887	Coast Region		4.06				2.51	-1.55														
Fort Hamilton	Kings	44.0	34	1843	1891	43.2	-0.8	49.7	1849	36.5	1869	New York City		3.62	22	1870	1891	2.06	-1.56	9.82	1889	1.65	1883										
Fort Columbus	New York	43.3	36	1821	1891	42.0	-1.3	51.1	1830	38.2	1823	Setauket		4.30	7	1885	1891	2.24	-2.06	8.16	1885	0.74	1890										
New York City	"	43.4	22	1870	1891	44.0	+0.6	46.9	1889	37.3	1873	White Plains		4.25	26	1854	1891	3.22	-1.03	11.66	1889	0.80	1890										
Setauket	Suffolk	44.7	7	1885	1891	43.0	-1.7	46.3	1889	42.9	1887	Hudson Valley		3.39				2.77	-0.61														
White Plains	Westchester	42.4	29	1862	1891	41.6	-0.8	45.4	'86-'89	35.8	1873	Albany		3.05	18	1874	1891	2.40	-0.65	5.40	1886	0.97	1882										
Hudson Valley	"	40.2				38.2	-2.0				1875	Honeymead Brook		2.83	20	1836	1891	2.35	-0.48	5.37	1853	0.80	1837										
Albany	Albany	39.3	18	1874	1891	38.8	-0.5	44.0	1883	32.2	1875	Dutchess		3.27	8	1884	1891	2.10	-1.17	4.87	1889	0.80	1890										
*Watervliet Arsenal	"	38.9	34	1824	1891	38.2	-0.7	45.1	1830	33.1	1827	West Point		3.98	47	1840	1891	2.83	-1.15	10.02	1846	1.00	1890										
Honeymeade Brook	Dutchess	39.1	8	1884	1891	36.5	-2.6	41.8	1888	36.5	1891	Boyd's Corners		3.76	9	1866	1891	3.86	+0.10	8.01	1889	1.12	1890										
*Poughkeepsie		41.2	20	1828	1891	38.7	-2.5				1891	Rondout		3.43	22	1829	1891	3.10	-0.33	7.55	1842	0.67	1890										
West Point	Orange	42.2	62	1824	1891	39.4	-2.8	49.9	1830	33.8	1873	Mohawk Valley		3.77				3.30	-0.47														
*Rondout	Ulster	40.7	23	1828	1891	37.6	-3.1	50.3	1849	37.1	1838	Utica		3.77	34	1826	1891	3.30	-0.47	6.58	1830	1.55	1840										
Mohawk Valley	"	36.4				36.8	+0.4				1873	Champlain Valley		2.34				1.67	-0.67														
*Utica	Oneida	36.4	32	1826	1891	36.8	+0.4	44.5	1830	26.9	1835	Plattsburgh Barracks		2.34	32	1840	1891	1.67	-0.67	4.39	1885	0.54	1882										
Champlain Valley	"	34.6				36.4	+1.8				1873	St. Lawrence Valley		2.82				2.97	+0.15														
*Plattsburgh Barracks	Clinton	34.6	34	1839	1891	36.4	+1.8	43.5	1849	25.3	1873	Malone		2.71	12	1830	1891	2.69	-0.02														
St. Lawrence Valley	"	35.0				36.5	+1.2				1873	Franklin		3.05	30	1840	1891	3.78	+0.73	10.02	1889	1.27	1870										
Madison Barracks	Jefferson	37.7	29	1829	1891	39.6	+0.9	46.1	1849	30.4	1871	Madison Barracks		2.95	6	1855	1891	3.06	+0.11														
*Canton	St. Lawrence	34.4	30	1862	1891	35.0	+0.6	38.8	1863	25.6	1873	North Hammond		3.30	14	1866	1891	2.33	-0.97	6.78	1866	1.73	1874										
North Hammond	"	34.1	14	1866	1891	37.8	+2.7	39.1	1870	25.5	1873	Potsdam		2.07	22	1828	1891	2.99	+0.92	4.10	1889	0.17	1836										
*Potsdam	"	33.8	23	1828	1891	34.6	+0.8	40.4	1830	30.4	1842	Great Lakes		3.41				2.81	-0.60														
Great Lakes		38.2				39.3	+1.2				1873	Buffalo		3.61	22	1870	1891	3.13	-0.48	6.05	1886	2.09	1875										
Buffalo	Erie	38.1	21	1871	1891	39.4	+1.3	43.5	1883	30.3	1873	Rochester		2.89	22	1870	1891	2.46	-0.43	5.46	1877	0.80	1887										
Rochester	Monroe	37.3	22	1870	1891	39.8	+2.5	40.6	1883	26.6	1873	Fort Niagara		2.46	36	1841	1891	1.75	-0.71	4.82	1842	0.54	1887										
Monroe											1873	Oswego		3.34	21	1871	1891	2.66	-0.68	6.45	1880	1.78	1873										
Fort Niagara	Niagara	39.6	25	1829	1891	41.8	+2.2	47.5	1849	31.5	1873	Palermo		3.69	31	1860	1891	2.88	-0.81	6.60	1866	1.01	1882										
Baldwinsville	Onondaga	37.8	17	1849	1891	38.9	+1.1				1873	Erie, Pennsylvania		4.45	18	1874	1891	3.99	-0.46	8.35	1879	2.51	1874										
Oswego	Oswego	38.5	22	1870	1891	38.6	+0.1	42.8	1877	32.0	1873	Central Lakes		2.52	22	1850	1891	1.68	-0.56	4.68	1857	0.33	1867										
Palermo	"										1873	Geneva		2.52	22	1850	1891	1.68	-0.84	4.68	1857	0.33	1867										
Lyons	Wayne	38.8	4	1860	1890						1873	Ontario		2.52	13	1879	1891	2.25	-0.27	6.03	1886	1.25	1880										
Erie, Pennsylvania	Erie	40.9	18	1874	1891	40.0	-0.9	44.0	1883	34.0	1880	Ithaca																					
Central Lakes		38.8				39.4	+0.6																										
*Geneva	Ontario	39.2	15	1854	1891	39.2	0.0																										
Ithaca	Tompkins	38.3	13	1879	1891	39.6	+1.3	40.4	1883	33.1	1880																						
Average Departure						-0.1						Average departure,							-0.35														

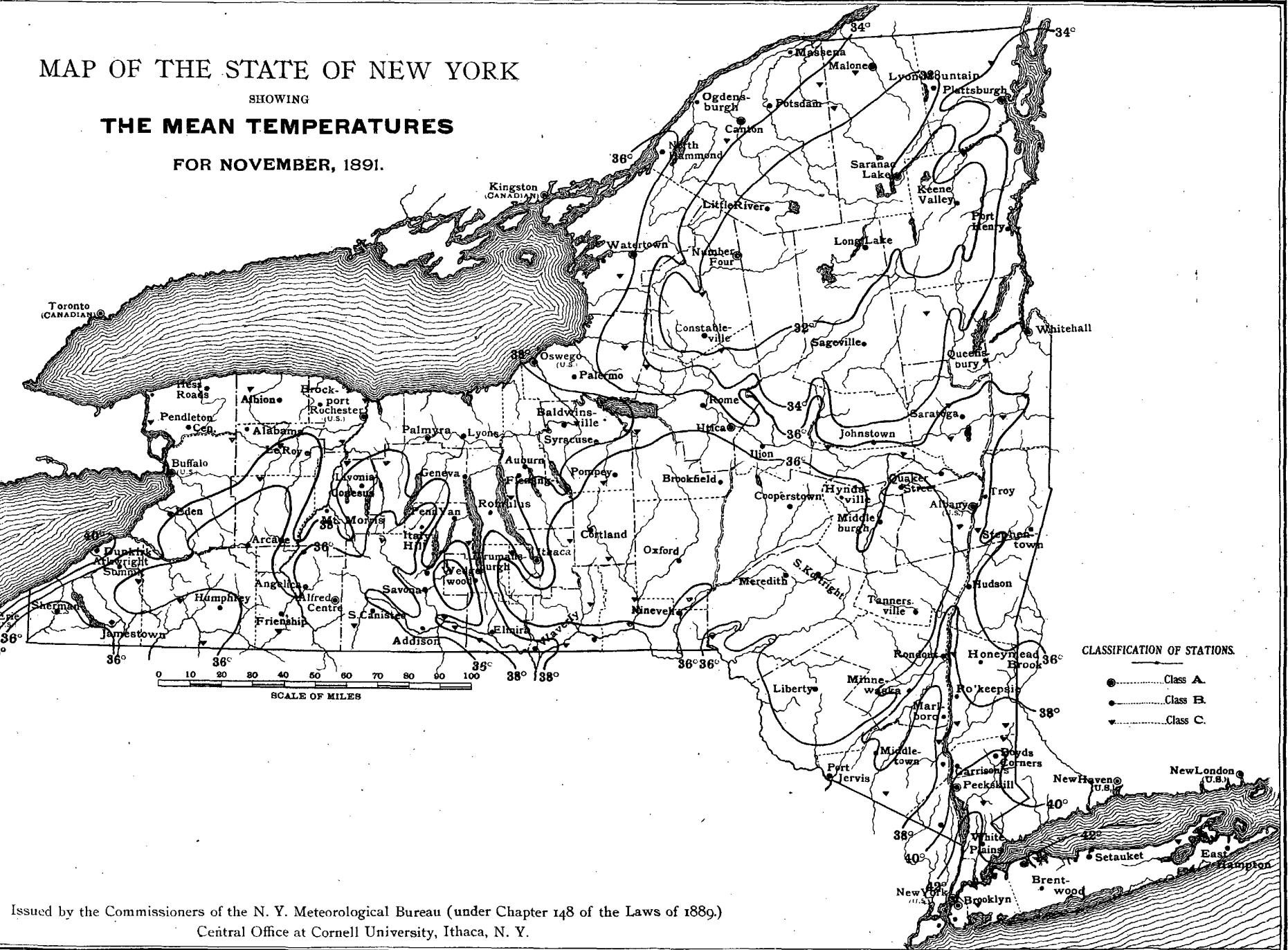
*The location of the instruments has been changed during the period covered by the record.

MAP OF THE STATE OF NEW YORK

SHOWING

THE MEAN TEMPERATURES

FOR NOVEMBER, 1891.



Issued by the Commissioners of the N. Y. Meteorological Bureau (under Chapter 148 of the Laws of 1889.)
Central Office at Cornell University, Ithaca, N. Y.

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THE PRECIPITATION
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